SERVICE MANUAL
БИ-7-2-КО.РЭ

«БИАТЛОН-7-2-КО»

HUNTING CARBINE

БИАТЛОН-7-2-КО

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SERVICE MANUAL

CONTENTS

Introduction 3

1. Description and Operation 5
1.1 Carbine Purpose 5
1.2 Specifications 6
1.3 Complete Set 7
1.4 Carbine Design and Principle of Operation 8
1.5 Marking 10

2. Usage for Its Designated Purpose 10
2.1 General Directions 10
2.2 Safety Precautions 11
2.3 Preparing for Use 11
2.4 Operation Procedure 12

3. Maintenance 13
3.1 Field Striping 13
3.2 Detailed Disassembly 13
3.3 Cleaning and Lubrication 15
3.4 Adjustment of Accuracy of Fire over Iron Sight 15
3.5 Adjustment of Optical Sight 16

4. Storage 17

5. Acceptance Certificate 18

Appendix A. "Биатлон-7-2-КО" Carbine Components 20

The Service Manual (hereinafter in the text referred to as the SM) contains the description of the carbine design, principle of its operation and other information necessary for the carbine proper operation, as well as the set of delivered equipment and the List of the product components.

The "Биатлон-7-2-КО" hunting carbine has the "Basic" version, which differs in the stock and safety design and has no iron sights. The "Basic" version may be chambered for the cartridge, 5.6 (.22LR) caliber, and cartridge, .22WMR caliber.

As to the design, principle of operation and specifications of the optical sight, refer to the optical sight Certificate.

IMPORTANT!

ON NO ACCOUNT USE THE CARTRIDGES, WHICH MAXIMUM OPERATING PRESSURE EXCEEDS:

180 MPa (1836 kgf/cm2) – for the carbines chambered for the cartridge, 5.6 (.22LR) caliber;

190 MPa (1937 kgf/cm2) – for the carbines chambered for the cartridge, .22 WMR caliber;

1 DESCRIPTION AND OPERATION

1.1 Carbine purpose

The "Биатлон-7-2-КО" hunting carbine and its modifications are intended for hunting at environmental temperature ranging from 243 up to 323 °K (from minus 30 up to plus 50 °C) (Figure 1).

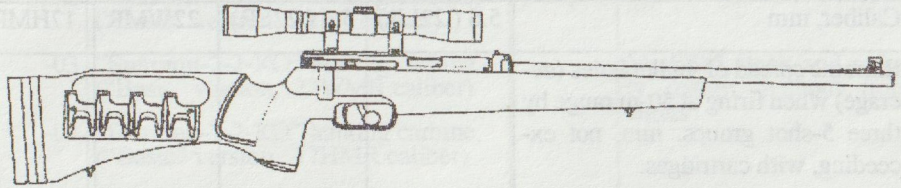


Figure 1 – "Биатлон-7-2-КО" hunting carbine

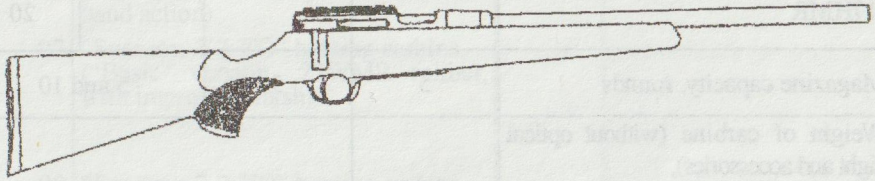


Figure 2 – "Биатлон-7-2-КО" hunting carbine, 5.6 (.22LR), .22WMR and .17HMR calibers, "Basic" version

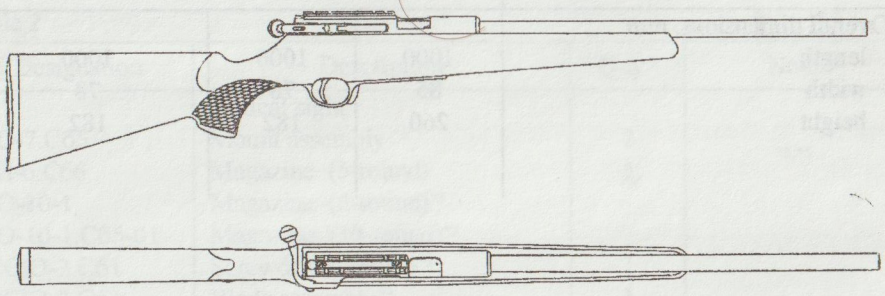


Figure 3 – "Биатлон-7-2-КО" hunting carbine, "Basic" version, left-hand action

1.2 Specifications

Performance	Parameter			
	"Биатлон-7-2-КО" in caliber			
	5.6 (.22LR)	5.6 (.22LR)	.22WMR	.17HMR
		"Basic" version		
Caliber, mm	5.6 (.22LR)	5.6 (.22LR)	.22WMR	.17HMR
Extreme spread of bullet holes (average) when firing at 50-m range by three 5-shot groups, mm, not exceeding, with cartridges:				
"Match" .22WMR .17HMR	25	25	20	20
Magazine capacity, rounds	5	5	5 and 10	
Weight of carbine (without optical sight and accessories), kg, not exceeding	3.5	3.2		
Trigger pull, N (kgf), within	4,9 to 9,8 (0.5 to 1.0)			
Overall dimensions, mm length width height	 1000 85 260	 1000 78 182	 1000 78 182	

1.3 Complete Set

The carbine versions and set of delivery (w/o magazine) are given in Tables 1 and 2.

Table 1

Version	Description	Q-ty*	Feature
	"Биатлон-7-2-КО" hunting carbine		
-02	"Биатлон-7-2-КО" hunting carbine, ("Basic" version, .22LR caliber)	1	
-03	"Биатлон-7-2-КО" hunting carbine, ("Basic" version, .22WMR caliber)		Modified stock and safety design, without iron sights
-04	"Биатлон-7-2-КО" hunting carbine, ("Basic" version, .17HMR caliber)		
-05	"Биатлон-7-2-КО" hunting carbine, (with competition-styled stock)		
-06	"Биатлон-7-2-КО" hunting carbine, (with competition-styled stock, left-hand action)		
-07	"Биатлон-7-2-КО" hunting carbine, ("Basic" version, .22WMR caliber, with improved finish)		
-09	"Биатлон-7-2-КО" hunting carbine, ("Basic" version, .22LR caliber, left-hand action)		

*The "Q-ty" column is to be filled in prior to packing in compliance with the order.

Table 2

Designation	Description	Q-ty*	Note
	Optical sight		
КО-7.С65	Mount assembly *1	2	*3,*5
БИ-6.С66	Magazine (5-round)	2	
КО-10-1.	Magazine (5-round)*2		
КО-10-1.С65-01	Magazine (10-round)*2		
МСЮ-2.С61	Screwdriver handle*3	1	
МСЮ-2.С62	Blade assembly*3	1	
-01	Blade assembly*3	1	
КО-7. 0-1	Screwdriver	1	
	Cleaning rod 1-5.6	1	
	Pull-through 5.6	1	
	Drift 3-3.0	1	
	Drift 3-2.0	1	

Table 2, continuation

Designation	Description	Q-ty*	Note
	Bristle brush Щ-2-5.6	1	
УПМ. Сб	Container assembly		
КЮ-5.6-1.1-1	Container	1	
КЮ-5.6-1 1-4	Container cap	1	
СОК-Ю-5. Сб3	Oiler	1	
КЮ-5.6-1. Сб3	Case		
ЧУС. Сб1-2	Case sling		
БИ-7-2-КО.РЭ	"Биатлон-7-2-КО" hunting carbine Service Manual		
УК-2. 1-1-03	Carton box*4	1	
-02	Carton box*5		

* The "Q-ty" column is to be filled prior to packing in compliance with the order.

*1 When delivering the carbine with the optical sight, the sight model and number are specified in the "Acceptance Certificate".

*2 For the "Биатлон-7-2-КО" carbine, .22WMR and .17HMR cal., "Basic" version.

*3 For the "Биатлон-7-2-КО" carbine

*4 For the "Биатлон-7-2-КО" carbine and the "Биатлон-7-2-КО" carbine, .22WMR and .17HMR cal., "Basic" version.

*5 For the "Биатлон-7-2-КО" carbine, .22LR cal., "Basic" version.

1.4 Carbine Design and Principle of Operation

1.4.1 The "Биатлон-7-2-КО" hunting carbine consists of the following assembly units: the barrel with receiver, locking mechanism of a crank type, trigger mechanism, magazines and stock in assembly.

1.4.2 The receiver is permanently fixed to the barrel. Found on the receiver is a rail for the optical-sight mounts fastenings.

1.4.3 The locking mechanism is of a crank type with vertical axles of rotation. It consists of a bolt assembly, lever, handle, connecting rod and it is pivotally connected with the receiver by means of an axle.

The barrel bore locking is effected by the connecting rod and lever which form an angle of approximately 180°.

The bolt assembly (Figure 4) consists of a bolt. Which accommodates: the firing pin which pierces the primer, firing-pin stud, extractor which serves to extract a fired case or a cartridge, auxiliary extractor, which is intended for their vigorous ejection, and plungers with springs.

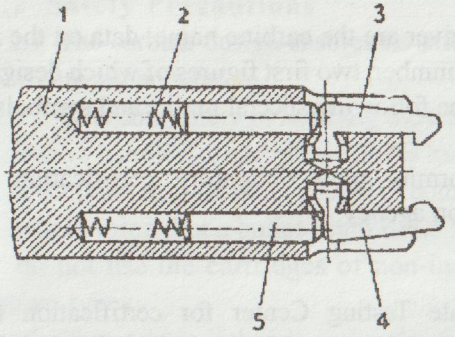


Figure 4 – Bolt assembly
1 – bolt; 2 – spring; 3 – extractor;
4 – auxiliary extractor; 5 – plunger

1.4.4 The trigger mechanism includes the following main units: the body assembly, trigger assembly, safety, hammer, mainspring, trigger lever and trigger spring.

The trigger pull, type of pull and trigger travel are adjusted by means of the adjusting screws without stripping the carbine.

The trigger pull and type of pull on the carbines of "Basic" version are adjusted at the Manufacturing plant and no further in-service adjustments are required.

1.4.5 The carbine magazines are single-column, interchangeable, hold 5 or 10 rounds and are fixed in the magazine holder.

1.4.6 The stock is provided with a pistol grip.

1.4.7 The iron sights (if be) allow to deliver aimed fire at two ranges: 25 m and 75 m, whether the optical sight and mounts are attached to or not.

1.4.8 While ordering for repair refer to the Appendix A containing the List of components with their designation and description.

1.4.9 Principle of carbine operation:

- while the bolt moves rearward, the hammer gets cocked;
- as the bolt travels forward, the cartridge is chambered by the bolt and the locking mechanism locks the barrel bore;
- on pressing the trigger, the hammer disengages from the trigger lever under the action of the mainspring and strikes the firing pin. The firing pin pierces the primer and a shot is fired;
- as the bolt subsequently recoils rearward, a case or a cartridge is withdrawn from the chamber by means of the extractor and auxiliary extractor and on touching the ejector it is extracted beyond the receiver. The hammer compresses the mainspring and takes the cocked position.

1.5 Marking

1.5.1 Marked on the carbine receiver are the carbine name, data on the firm and Manufacturing country, product number, two first figures of which designate the year of manufacture, as well as the following special marks and symbols:

- symbol of conformity with obligatory certification and code of certification agency;

- stamp of the State Testing Center for certification tests of civilian and service weapon and two last figures of the year of certification tests;

.22LR 5.6
or .22WMR
or .17HMR

- designation of the cartridge to be used.

2 USAGE FOR ITS DESIGNATED PURPOSE

2.1 General Directions

2.1.1 Prior to servicing the carbine, read and understand the present Service Manual and study the carbine design. Pay special attention to the safety precautions.

2.1.2 The carbine, caliber 5.6 (.22LR), uses the rim-fire "Match" cartridges, caliber 5.6 mm, or other similar cartridges, which ensure mean value of maximum operating pressure not exceeding 180 MPa (1836 kgf/cm^2) according to the RIC procedure of Convention in Brussels.

When firing the carbine at air temperature below 268 °K (minus 5 °C), it is recommended to use the "Biathlon" cartridges.

To fire the carbine, caliber .22WMR, use the rim-fire .22WMR cartridges, which ensure mean value of maximum operating pressure not exceeding 190 MPa (1937 kgf/cm^2) as per the RIC procedure of Convention in Brussels.

2.1.3 To prevent the parts from breakage never do dry releases, if no need be.

2.1.4 To put the carbine into operation, degrease it, i.e. unpack the carbine, accessories and tools, remove protective grease, check the set of delivery and make sure that the carbine is serviceable. After the product has been degreased incinerate anticorrosive paper, as it is toxic.

2.2 Safety Precautions

2.2.1 The carbine design ensures its safe functioning, providing proper rules of servicing are adhered to.

2.2.2 To ensure safety in handling the carbine, follow the safety rules below:

- always handle the carbine as if it is loaded;
- never point the carbine to people or domestic animals. Never use it as a stick;
- bear in mind that a bullet flight is 1.5 km;
- do not use the cartridges of non-industrial filling or the cartridges of unknown types;
- take the carbine in hands and make sure that there are no cartridges in the chamber, to this end retract the bolt;
- prior to loading the carbine, inspect the barrel bore and chamber, they should be free of obstructions;
- reload the carbine by energetic reciprocating movement of the bolt (without stops in the intermediate positions);
- in case of misfire, do not open the bolt for 30 sec to prevent from a possibility of a hangfire; after unloading the carbine, make sure that there is no bullet in the chamber;
- always keep the carbine with the safety engaged in the "safe" position to prevent from an accidental shot;
- unload the carbine when riding within the hunting-grounds, reaching a settlement and a halt, prior to boarding a vehicle;
- store the carbine and cartridges separately beyond the reach of children and strangers;
- when annular buldging or cracks appear on the cartridge case body at the base, stop operating the carbine to prevent the possible blow-out of the powder gases.

2.3 Preparing for Use

2.3.1 When preparing the carbine for use it is necessary to:

- wipe the barrel bore and chamber dry, remove grease from the parts surfaces;
- check:
- tightening of screws, which connect the barrel to the receiver and the stock;
- safety operation;
- trigger mechanism operation;
- tightening of screws and nuts of the optical-sight mount clamps ;
- make sure that magazines loaded in the carbine in turn are reliably held by the latch;

- insert the empty cartridge case into the chamber and make a blank release to check that the carbine is serviceable;

- check the carbine accuracy of fire, adjust the sighting devices as per items 3.4 and 3.5 if need be, as the accuracy of fire depends on the shooter's anthropometric feaers, type and lot of the cartriges used, weather conditions and other factors.

2.4 Operation Procedure

2.4.1 Loading and firing procedure:

- fill the magazine with cartridges and insert it into magazine well;
- retract the bolt to the rear position, then move it forward;

The carbine is ready for operation.

Move the range selector, if be, or optical sight to the position which corresponds to the fire range, aim and let the trigger off.

The shot occurs.

2.4.2 To reload the carbine, proceed as follows:

- move the bolt to the rear position, now advance it.

The carbine is ready for the next shot.

2.4.3 Unloading procedure:

- move the bolt to the rear position;
- press the magazine latch and withdraw the magazine.

2.4.4 Engagement and disengagement of safety

For the "Биатлон-7-2-КО" carbine:

The safety is engaged – the "safe" position:

- move the safety to the trigger trigger rearward till the stop.

The safety is disengaged – the "fire" position:

- move the safety to the trigger trigger rearward till the stop.

For the "Биатлон-7-2-КО" carbine, "Basic" version, and "Биатлон-7-2-КО" carbine, caliber .22WMR and .17HMR calibers, "Basic" version:

The safety is engaged – the "safe" position:

- press the selector from the trigger guard outside so, that the red portion on the selector is covered by the trigger guard.

The safety is disengaged – the "fire" position:

- move the selector forward from the trigger till the stop.

The red portion on the selector shows, that the safety is in the "fire" position.

3 MAINTENANCE

3.1 Field Stripping

Field stripping is undertaken for the carbine inspection, cleaning and lubricating after firing.

Field stripping procedure:

- press the magazine latch and detach the magazine;
- with a cartridge in the chamber, extract it, to this end retract the bolt;
- when the carbine is provided with the optical sight, release the nuts of the mount clamps by means of the drift and remove the sight with the mounts;
- disengage the safety;
- retract the bolt for 15…20 mm, press the latch in the lever, withdraw the pin from the receiver and retracting the bolt rearward withdraw it together with the lever and connecting rod.

Re-assemble in the reverse order.

3.2 Detailed disassembly

The detailed disassembly is performed in case of heavy dirt, water penetration, or when putting the carbine in long-term storage.

Detailed disassembly procedure is as follows:

- carry out field stripping;
- undo the screw fastening the trigger guard and detach it from the stock;
- undo the connecting screws;
- detach the barrel with receiver from the stock;
- drive out the front pin which fastens the trigger mechanism and detach the trigger mechanism.

The trigger mechanism components are accessible for maintenance, so the trigger mechanism needs no disassembly.

When the necessity of the safety adjustment arises with the safety in the "safe" position, tighten screw 2 as far as it will go and then undo it so that the travel of trigger 1 end (Figure 5 or Figure 6 – for the "Basic" version) is 1-1.5 mm.

Disassemble the bolt only in case of its malfunctioning.

To this end proceed as follows (Figure 4):

- clamp the free end of extractor 3 or auxiliary extractor 4 in the bench vice in turn;
- press plungers 5 of the extractor or auxiliary extractor with the drift and carefully detach bolt 1;

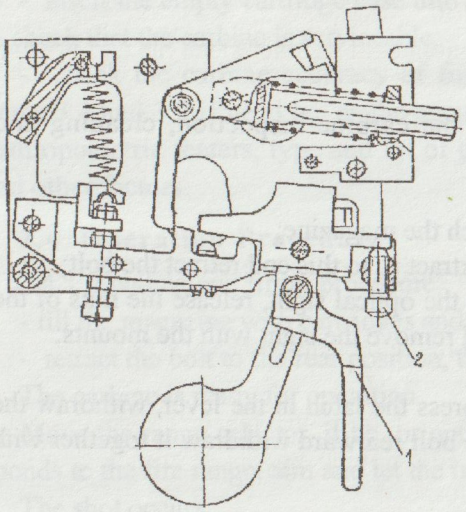


Figure 5 – Trigger mechanism
1 – trigger; 2 – screw

- withdraw plungers with springs 2 out of the seats by light tapping with the bolt front end against the wooden object;
- drive out the firing-pin stud and remove the firing pin.

Re-assemble in the reverse order.

When connecting the receiver with the stock, first tighten the front connecting screw, so that the receiver fits tightly against the stock, but not till the stop. Then tighten the rear connecting screw in the same manner. This done, tighten both screws in the same order till the stop and unscrew them (approximately through 5°) to prevent the stock from deformation.

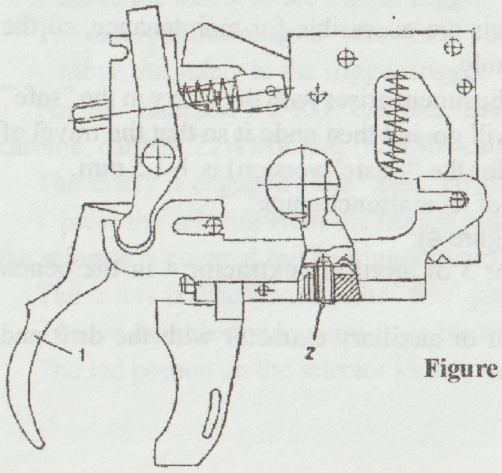


Figure 4 – Trigger mechanism (safe position)
1 – trigger; 2 – screw

3.3 Cleaning and Lubrication

Clean the carbine after each using but in cold weather clean the carbine in an hour after placing it indoors.

To clean the carbine, proceed as follows:

- perform field stripping;
- wash and score out the barrel bore;
- clean the slots in the barrel end for the extractor and auxiliary extractor;
- remove grease, lead particles from the barrel end and from the receiver near the barrel and well for the magazine;
- remove carbon deposit and dirt from the breeching face and bolt slots, from the extractor and auxiliary extractor.

Wash the barrel bore with the rifle oil from the receiver side using the cleaning rod and bristle brush (three-five double travels of the cleaning rod lengthwise the barrel).

Clean the barrel bore from the receiver side using the cleaning rod, pull-through and waste. Prior to inserting the waste into the barrel bore, slightly oil it. Change the waste until it bears traces of carbon deposit.

After cleaning has been done, apply a thin layer of oil on the carbine as per Table 3. The oil should correspond to a season of the year.

Table 3

Lubrication point	Method of lubricant application
Barrel bore	Bristle brush
Locking mechanism	Waste, preliminarily dipped in the oil and wrung out
Trigger mechanism (axles of rotation, contact points of parts)	By drops. Let the excess oil trickle down and remove it by shaking the trigger mechanism

To lubricate the scoured barrel bore use a separate bristle brush. Never lubricate the magazines in the process of operation. The follower, the magazine body should be dry inside and outside.

3.4 Adjustment of Accuracy of Fire over Iron Sight (if be)

If necessity arises, adjust accuracy of fire by shifting of front sight to the right-to the left and by rotating of the front-sight screw up and down. To rotate the front-sight screw, use a slotted screwdriver from the accessories set.

When the front sight is shifted to the right or to the left for 1 mm, the mean point of impact (MPI) displaces for 60 mm, when the front-sight screw is rotated up or down through one turn, the MPI displaces for 45 mm. Registering is performed for a 25m range.

If after the registering fire over the iron sight the MPI is found left from the aiming point, move the front sight to the left, if the MPI is shifted to the right, move the front sight to the right.

If the MPI is higher than the aiming point, undo the front-sight screw, if the MPI is lower than the aiming point, screw it in.

3.5 Adjustment of Optical Sight (if be)

The carbine optical sight is registered for 50 m. In case of unsatisfactory registering, it is required to register the optical sight anew through the iron sight, to this end:

- set the alignment mark of the back-sight selector against the 25 range of the sight bed;
- position a target with the marked aiming point (a circle, a cross) at the 50-m range;
- place the carbine on the rest and aim it over the iron sight on the target at the aiming point;
- check position of the optical sight aiming mark relative to the aiming point, if they fail to coincide, align them by rotating the drums, not moving the carbine;
- check the adjustment done by firing:
- fire several shots and determine deviation of the mean point of impact (MPI) from the aiming point. If the MPI deviation does not meet the accuracy if aim, introduce corrections by rotating the drums depending on one scale division, which is given in the Certificate for the optical sight. Deliver a check group of shots.

To register the optical sight for other ranges, adjust it by rotating the drum depending on one scale division, which is given in the Certificate for the optical sight.

Remember positions of the drums or record them in Table 4 of the present Service Manual.

Table 4

Range, m						
Scale division						

4 STORAGE

Store the carbine being cleaned and lubricated in dry premises without sharp temperature fluctuations far from heating devices. Acid, alkaline and other aggressive impurities should be absent in the environment.

Keep the hammer uncocked, when storing, to prevent changes of the mainspring power performance.

5 ACCEPTANCE CERTIFICATE

20 ОТК

"Биатлон-7-2-КО", No _____

"Биатлон-7-2-КО", "Basic" version, No Н03612306

"Биатлон-7-2-КО", .22WMR caliber, "Basic" version, No _____,

"Биатлон-7-2-КО", .17HMR caliber, "Basic" version, No _____,

МЖ03

hunting carbine is manufactured, accepted, preserved and packed in compliance with requirements, specified in the State Standards, Technical Documentation in force and found fit for service.

The carbines "Биатлон-7-2-КО" and "Биатлон-7-2-КО", "Basic" version, are accompanied with Certificate of Conformity No РОСС.RU.МЖ03.В02749 of August 29, 2013

The "Биатлон-7-2-КО" carbine, .22WMR caliber, "Basic" version, is accompanied with Certificate of Conformity No РОСС.RU.МЖ03.

The "Биатлон-7-2-КО" carbine, .17HMR caliber, "Basic" version, is accompanied with Certificate of Conformity

The carbine is fitted with optical sight, model _____

№ _____

The carbine is proved with the rim-fire cartridges, caliber

5.6 (.22LR) ~~.22WMR~~ ~~.17HMR~~

(cross unnecessary)

at 50 m range. Extreme spread of fire bullets holes makes 24 mm.

The carbine is tested in the indoor shooting range at environmental temperature of 25±10 °C.

The optical sight is registered at 50m range with scale setting as follows:

- lateral corrections – 0 division;
- ranges – 0 division.

Chief of Insp. Dpt.

Seal ИБ

ОТК №1

_____ _____

personal signature name

30. 10. 13

date, month, year

81

53 ОТК

Appendix A

"БИАТЛОН-7-2-КО" CARBINE COMPONENTS

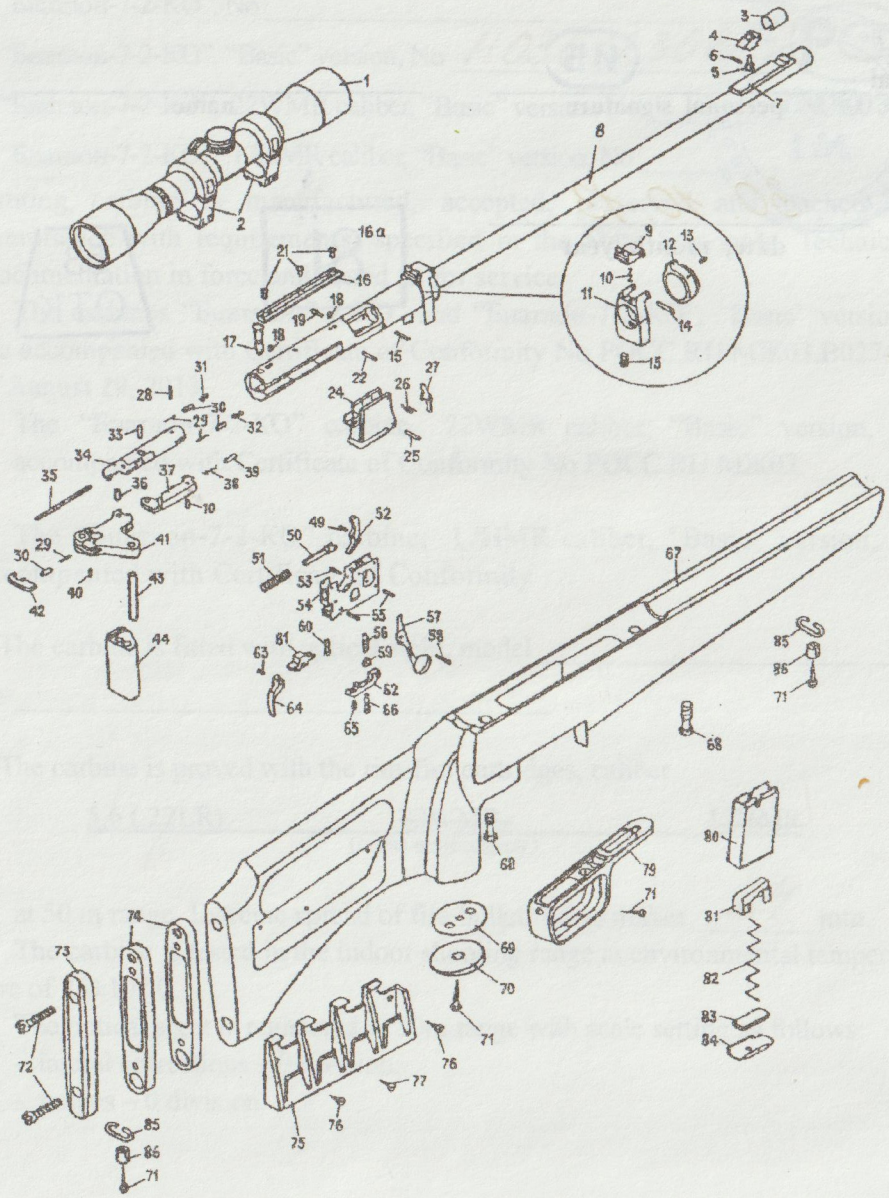
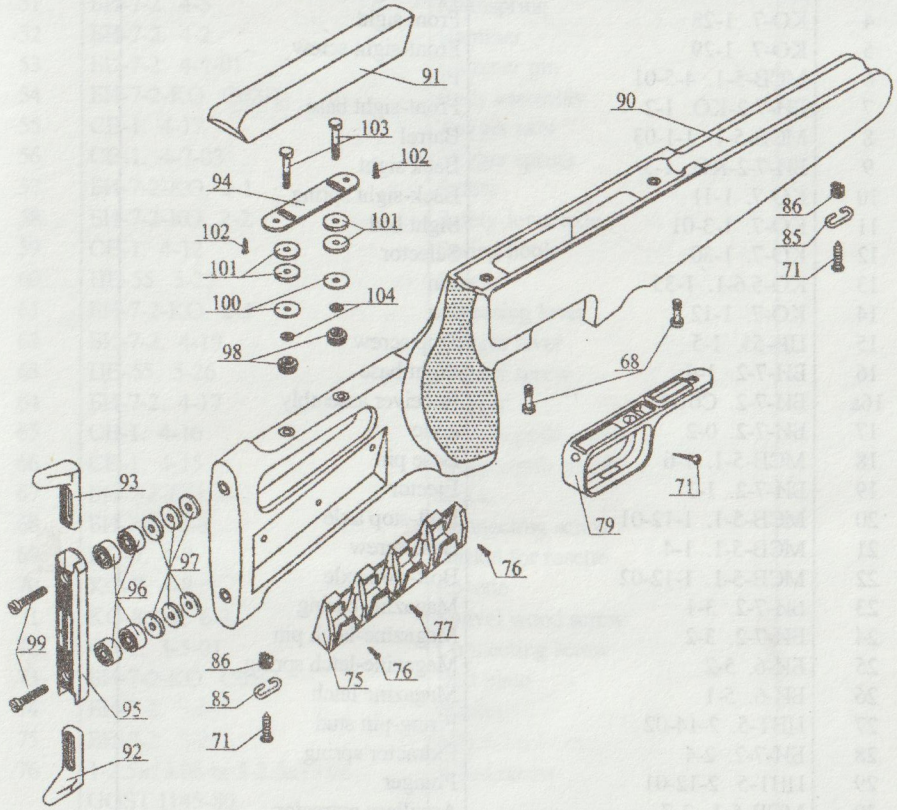


Figure A1 - Sheet 1s



Competition - styled stock
Figure A1 - Sheet 2

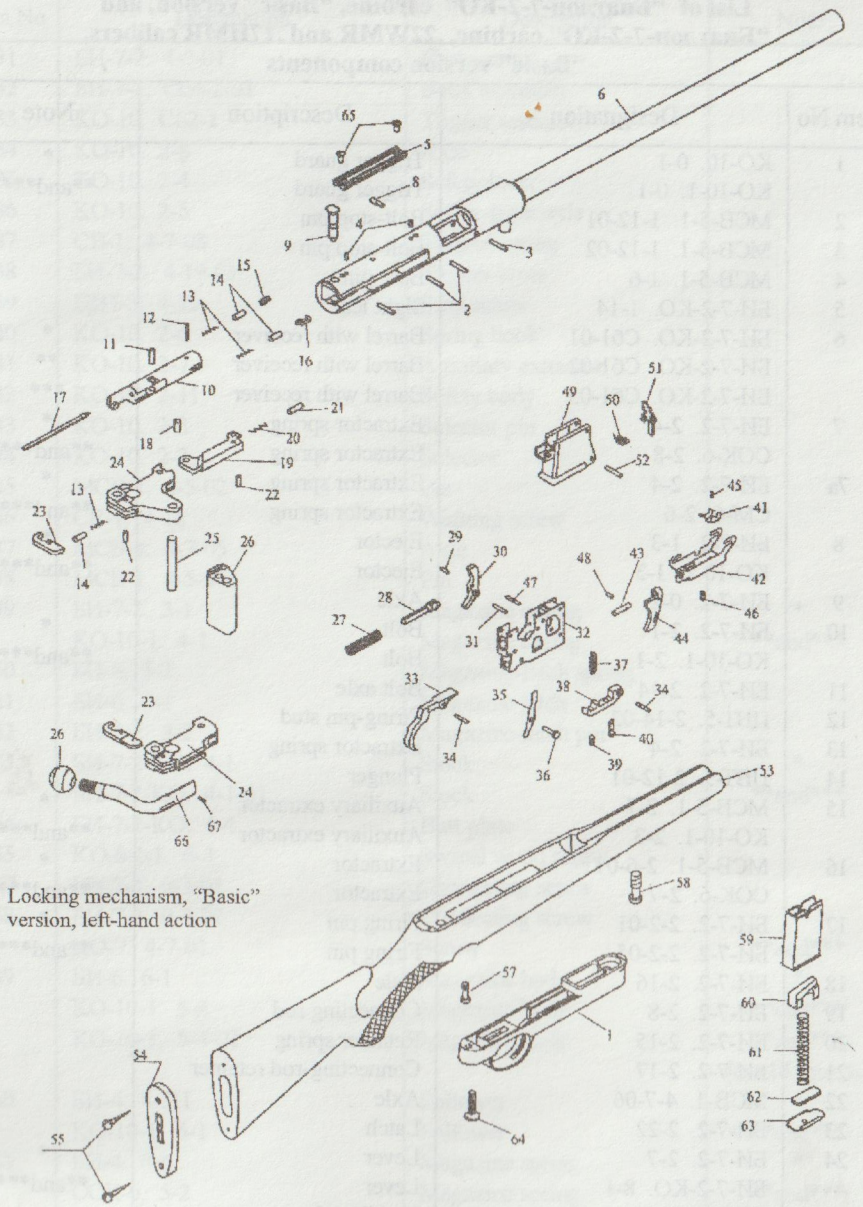
List of "Биатлон-7-2-КО" carbine components

Item No	Designation	Description	Note
1		Optical sight	
2	КО-7. Сб5	Mount assembly	
	БИ-7-2-КО. Сб1	Barrel with receiver	
3	КО-7. 1-20	Front-sight cover	
4	КО-7. 1-28	Front sight	
5	КО-7 1-29	Front-sight screw	
6	МСВ-5-1. 4-5-01	Pin	
7	БИ-7-2-КО. 1-2	Front-sight base	
8	МСВ-5-1. 1-1-03	Barrel	
9	БИ-7-2-КО. 1-3	Back sight	
10	КО-7. 1-11	Back-sight spring	
11	КО-7. 1-3-01	Sight bed	
12	КО-7. 1-30	Selector	
13	КО-5.6-1. 1-35	Pin	
14	КО-7. 1-12	Pin	
15	ЦВ-55. 1-5	Stop screw	
16	БИ-7-2. 1-4	Sight base	
16а	БИ-7-2. Сб1-1	Receiver assembly	
17	БИ-7-2. 0-2	Axle	
18	МСВ-5-1. 1-6	Base pin	
19	БИ-7-2. 1-3	Ejector	
20	МСВ-5-1. 1-12-01	Bolt-stop axle	
21	МСВ-5-1. 1-4	Base screw	
22	МСВ-5-1. 1-12-02	Bolt-stop axle	
23	БИ-7-2. 3-1	Magazine casing	
24	БИ-7-2. 3-2	Magazine-latch pin	
25	БИ-6. 5-2	Magazine-latch spring	
26	БИ-6. 5-1	Magazine latch	
27	ЦВТ-5. 2-14-02	Firing-pin stud	
28	БИ-7-2. 2-4	Extractor spring	
29	ЦВТ-5. 2-12-01	Plunger	
30	МСВ-5-1. 2-7	Auxiliary extractor	
31	МСВ-5-1. 2-6-01	Extractor	
32	БИ-7-2. 2-14	Bolt axle	
34	БИ-7-2. 2-1	Bolt	
35	БИ-7-2. 2-2-01	Firing pin	
36	БИ-7-2. 2-16	Axle	
37	БИ-7-2. 2-8	Connecting rod	
38	БИ-7-2. 2-15	Retainer spring	
39	БИ-7-2. 2-17	Connecting-rod retainer	
40	МСВ-1. 4-7-06	Axle	
41	БИ-7-2. 2-7-01	Lever	
42	БИ-7-2. 2-12	Latch	

Item No	Designation	Description	Note
43	БИ-7-2. 2-10	Handle axle	
44	БИ-7-2. 2-9	Handle	
	БИ-7-2-КО. Сб2	Trigger mechanism	
49	БИ-7-2. 4-7	Hammer pin	
50	БИ-7-2. 4-4	Rod	
51	БИ-7-2. 4-5	Mainspring	
52	БИ-7-2. 4-2	Hammer	
53	БИ-7-2. 4-7-01	Hammer pin	
54	БИ-7-2-КО. Сб2-1	Body assembly	
55	СВ-1. 4-17	Trigger axle	
56	СВ-1. 4-7-03	Trigger spring	
57	БИ-7-2-КО. 2-1	Safety	
58	БИ-7-2-КО. 2-2	Safety-lever axle	
59	СВ-1. 4-12	Spring hook	
60	ЦВ-55. 5-25	Screw	
61	БИ-7-2-КО. 2-3	Releasing lever	
62	БИ-7-2. 4-19	Trigger lever	
63	ЦВ-55. 5-26	Washer screw	
64	БИ-7-2. 4-17	Trigger	
65	СВ-1. 4-16	Double-pulls screw	
66	СВ-1. 4-15	Trigger-pull screw	
67	БИ-7-2-КО. 3-1	Stock	
68	БИ-7-2. 0-3	Connecting screw	
69	КО-7. 4-9	Gasket for rosette	
70	КО-7. 4-8	Rosette	
71	КО-8.2-1. 6-3	Swivel wood screw	
72	СВ-1. 3-5-01	Connecting screw	
73	БИ-7-2-КО. Сб5-1	Butt plate	
74	БИ-7-2. 5-6	Gasket	
75	БИ-7-2. 5-2	Magazine holder	
76	1-2.5x13.06 or 3-2.5x13.06 GOST 1145-80	Wood screw	
77	1-3x30.06 or 3-3x30.06 GOST 1145-80	Wood screw	
79	БИ-7-2-КО. 3-2	Trigger guard	
80	БИ-6. 6-1	Magazine body	
81	БИ-4. 4-3П	Follower	
82	БИ-4. 4-6	Magazine spring	
83	БИ-6. 6-3	Magazine-cover latch	
84	БИ-6. 6-2	Magazine cover	
85	КО-7. 4-3	Swivel ring	
86	КО-7. 4-4	Swivel base	

“Биатлон-7-2-КО” carbine, 05 version, 06 version

Item No	Designation	Description	Note
90	БИ-7-2-КО. 7-1	Stock	05 version
	БИ-7-2-КО. 7-1-01	Stock	06 version
91	БИ-7-2-КО. 7-2	Cheekpiece	05 version
	БИ-7-2-КО. 7-2-01	Cheekpiece	06 version
92	БИ-7-4. С67-1	Hook	
93	БИ-7-4. С67-1-01	Hook	
94	БИ-7-3. 6-3	Plate	
95	БИ-7-4. 7-7	Butt plate	
96	БИ-7-4. 7-9	Washer	
97	БИ-7-4. 7-10	Washer	
98	МСВ-5-1.5-16	Clamp nut or	
	МСВ-5-1.5-19	Clamp nut	
99	СВ-1.3-5-02	Connected screw	
100	СМ-2.7-2	Setting washer	
101	СМ-2.7-2-01	Setting washer	
102	СОК-АК. 18-4	Butt-plate wood screw	
103	ЦВТ-1.3-21А-01	Cheekpiece screw	
104	5.01.08кп.05 GOST6958-78	Washer	



Locking mechanism, “Basic” version, left-hand action

Figure A2 - Competition of “Биатлон-7-2-КО” carbine, “Basic” version in .22LR, .22WMR and .17HMR calibers

List of "Биатлон-7-2-КО" carbine, "Basic" version, and "Биатлон-7-2-КО" carbine, .22WMR and .17HMR calibers, "Basic" version components

Item No	Designation	Description	Note
1	КО-10. 0-1	Trigger guard	*
	КО-10-1. 0-1	Trigger guard	**and***
2	МСВ-5-1. 1-12-01	Bolt-stop pin	
3	МСВ-5-1. 1-12-02	Bolt-stop pin	
4	МСВ-5-1. 1-6	Base pin	
5	БИ-7-2-КО. 1-14	Sight leaf	
6	БИ-7-2-КО. СБ1-01	Barrel with receiver	*
	БИ-7-2-КО. СБ1-02	Barrel with receiver	**
	БИ-7-2-КО. СБ1-03	Barrel with receiver	***
7	БИ-7-2. 2-4	Extractor spring	*
	СОК-6. 2-8	Extractor spring	**and***
7a	БИ-7-2. 2-4	Extractor spring	*
	СМ-6. 2-6	Extractor spring	**and***
8	БИ-7-2. 1-3	Ejector	*
	КО-10-1. 1-3	Ejector	**and***
9	БИ-7-2. 0-2	Axle	
10	БИ-7-2. 2-1	Bolt	*
	КО-10-1. 2-1	Bolt	**and***
11	БИ-7-2. 2-14	Bolt axle	
12	ЦВТ-5. 2-14-02	Firing-pin stud	
13	БИ-7-2. 2-4	Extractor spring	
14	ЦВТ-5. 2-12-01	Plunger	
15	МСВ-5-1. 2-7	Auxiliary extractor	*
	КО-10-1. 2-3	Auxiliary extractor	**and***
16	МСВ-5-1. 2-6-01	Extractor	*
	СОК-6. 2-7	Extractor	**and***
17	БИ-7-2. 2-2-01	Firing pin	*
	БИ-7-2. 2-2-05	Firing pin	**and***
18	БИ-7-2. 2-16	Axle	
19	БИ-7-2. 2-8	Connecting rod	
20	БИ-7-2. 2-15	Retainer spring	
21	БИ-7-2. 2-17	Connecting-rod retainer	
22	МСВ-1. 4-7-06	Axle	
23	БИ-7-2. 2-22	Latch	
24	БИ-7-2. 2-7	Lever	*
	БИ-7-2-КО. 8-1	Lever	**and***
25	БИ-7-2. 2-10	Handle axle	
26	БИ-7-2. 2-9	Handle	
27	БИ-7-2. 4-5	Mainspring	
28	БИ-7-2. 4-4	Rod	
29	БИ-7-2. 4-7	Hammer pin	
30	БИ-7-2. 4-2	Hammer	

Item No	Designation	Description	Note
31	БИ-7-2. 4-7-01	Hammer pin	
32	БИ-7-2. СБ4-2-01	Body assembly	
33	КО-10. СБ2-1	Trigger assembly	
34	КО-10. 2-8	Axle	
35	КО-10. 2-4	Safety lever	
36	КО-10. 2-5	Safety-lever axle	
37	СВ-1. 4-7-03	Trigger spring	
38	БИ-7-2. 4-19-01	Trigger lever	
39	ЦВТ-5. 4-12	Stop screw	
40	КО-10. 2-6	Spring hook	
41	КО-10. 2-7	Auxiliary extractor	
42	КО-10. 2-11	Safety body	
43	КО-10. 2-3	Selector pin	
44	КО-10. 2-2	Selector	
45	МСВ-1. 4-5-02	Pin	
46	СВ-1. 4-16	Warning screw	
47	МСВ-1. 4-7-05	Axle	
48	МСВ-1. 4-5-01	Pin	
49	БИ-7-2. 3-1	Magazine casing	*
	КО-10-1. 4-1	Magazine casing	**and***
50	БИ-6. 5-2	Magazine-latch spring	
51	БИ-6. 5-1	Magazine latch	
52	БИ-7-2. 3-2	Magazine-latch pin	
53	БИ-7-2-КО. 4-1	Stock	*
	БИ-7-2-КО. 4-1-01	Stock	**and***
54	БИ-7-2-КО. 4-4	Butt plate	
55	КО-8.2-1. 6-3	Swivel wood screw	
57	БИ-7-2. 0-3-01	Connecting screw	
58	БИ-7-2. 0-3-02	Connecting screw	*
	КО-7. 4-7-01	Screw	**and***
59	БИ-6. 6-1	Magazine body	*
	КО-10-1. 5-4	Magazine body	**and***
	КО-10-1. 5-4-01	Magazine body	**and*** (for 10 rounds)
60	БИ-4. 4-3П	Follower	*
	КО-10-1. 5-1	Follower	**and***
61	БИ-4. 4-6	Magazine spring	*
	СОК-6. 5-2	Magazine spring	**and*** (for 10 rounds)
62	БИ-6. 6-3	Magazine-cover latch	*
	КО-10-1. 5-2	Magazine-cover latch	**and***
63	БИ-6. 6-2	Magazine cover	*
	КО-10-1. 5-3	Magazine cover	**and***

Item No	Designation	Description	Note
64	ЦВР-2. 1-16	Body screw	
65	МСВ-5-1. 1-4	Base screw	

"Биатлон-7-2-КО" carbine, "Basic" version. left-hand action:

23	БИ-7-3. 2-3	Latch	
24	БИ-7-3. 2-1	Lever	
26	МСВ-2. 2-3-01	Knod	
66	БИ-7-3. 2-5	Rod	
67	КО-7-1. 1-16	Pin	

*For "Биатлон-7-2-КО" carbine, "Basic" version
** For "Биатлон-7-2-КО" carbine, .22WMR caliber, "Basic" version
*** For "Биатлон-7-2-КО" carbine, .17HMR caliber, "Basic" version